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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/510,564	10/08/2004	Michiyuki Sugino	1152-0310PUS1	9017
2292	7590 11/01/2006		EXAMINER	
	EWART KOLASCH & BI	LUI, DONNA V		
	PO BOX 747 FALLS CHURCH, VA 22040-0747 ART UNIT			PAPER NUMBER
			2629	
		DATE MAILED: 11/01/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/510,564	SUGINO, MICHIYUKI			
		Examiner	Art Unit			
		Donna V. Lui	2629			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a solid part of the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. To period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status						
·	Responsive to communication(s) filed on 4/14/2					
,	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
ا_ا(د	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims					
=	Claim(s) <u>1-6</u> is/are pending in the application.					
4a) Of the above claim(s) <u>1-4</u> is/are withdrawn from consideration.						
· —	5) Claim(s) is/are allowed.					
	S)⊠ Claim(s) <u>5 and 6</u> is/are rejected.					
·	Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	alaction requirement				
<i>ا</i> ل	claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers		4			
9) 🗌	The specification is objected to by the Examiner	ſ. <sub>&gt;</sub>				
10)⊠ The drawing(s) filed on <u>08 October 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the prior		ed in this National Stage			
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	t(s)					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 4/14/2006;10/8/2004.  Paper No(s)/Mail Date  5) Notice of Informal Patent Application 6) Other:						

### **DETAILED ACTION**

## **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. <u>Claims 5-6</u> are rejected under 35 U.S.C. 102(b) as being anticipated by Suzuki et al. (Pub. No.: US 2002/0140652 A1).

With respect to <u>Claim 5</u>, Suzuki teaches a liquid crystal display for image display using a liquid crystal display panel (See figure 1; [0033], lines 1-7), comprising: a write-gray scale level determining section (See figure 3, elements 36 and 46; [0054], lines 4-10) for determining write-gray scale level data for input image data that compensates an optical response characteristic of the liquid crystal display panel, in accordance with, at least, a combination of gray scale level transitions from a previous vertical display period to a current vertical display period ([0041], lines 1-4); an achievable gray scale level determining section (See figure 3, elements 34 and 44; [0053], lines 8-17) for generating achievable gray scale level data for input image data after a lapse of one vertical display period of the liquid crystal display panel, in accordance with, at

Art Unit: 2629

least, a combination of gray scale level transitions from one vertical display period to the next ([0041], lines 1-4); and a temperature detector (See figure 1, element 24; [0096], lines 1-6 and 11-15; [0097]) for detecting a device interior temperature (note that characteristics of a device interior is equivalent to response characteristics of liquid crystal material), wherein the writegray scale level determining section determines the write-gray scale level data to be supplied to the liquid crystal display panel, based on achievable gray scale level data of the liquid crystal display panel, corresponding to input image data at the previous vertical display period (See figure 3, element 36; [0057], lines 12-14; represented as nFp), output from the achievable gray scale level determining section ([0057], lines 1-5; represented as  $\Delta p$  and  $\Delta o$ ) and the input image data at the current vertical display period ([0057], lines 1-5; represented as nFi), and wherein the achievable gray scale level determining section, based on the detected device interior temperature (See figure 3; [0043], lines 7-16; [0096], lines 6-11), determines the achievable gray scale level data for the input image data after the lapse of one vertical display period of the liquid crystal display panel ([0056], lines 1-11; note that input into the achievable gray scale level determining portion is based on the detected device interior temperature).

With respect to <u>Claim 6</u>, Suzuki teaches the liquid crystal display according to Claim 5, wherein the write-gray scale level determining section, based on the detected device interior temperature, determines the write-gray scale level data for compensating the optical response characteristic of the liquid crystal display panel (See figure 3; note that input into the achievable gray scale level determining portion is based on the detected device interior temperature and output data from the achievable gray scale level determining portion is input to the write-gray

Art Unit: 2629

scale level determining section, thus the determined write-gray scale level data for compensating the optical characteristic of the liquid crystal display panel is based on the detected device interior temperature).

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donna V. Lui whose telephone number is (571) 272-4920. The examiner can normally be reached on Monday through Friday 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amr Awad can be reached on (571)272-7764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Donna V Lui Examiner Art Unit 2629 Art Unit: 2629

SUPERVISORY PATENT EXAMINER

Amr Allay KWM